Mirror Weather Station Model: MR238 **User Manual**

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INTRODUCTION

Thank you for selecting the Oregon Scientific™ MR238 Mirror Weather Station. This powerful device bundles time keeping, weather forecasting, indoor and outdoor temperature and humidity readings into a single mirror display you can use from the convenience of your home.

In this box, you will find:

- Main unit (MR238) with wall-mount holder Remote sensor (RTGR328N) •
- AC adapter

•

NOTE The THGR328N (5-Channel) and THGR228N (3-Channel) remote sensors are also compatible with this weather station. Additional sensors are sold separately. Please contact your local stockist for more information.

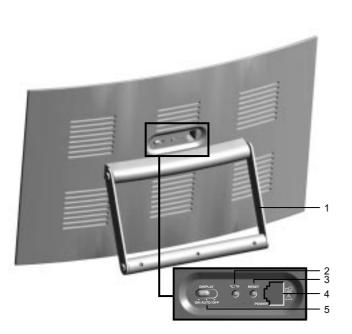
Keep this manual handy as you use your new product. It contains practical stepby-step instructions, as well as technical specifications and warnings you should know.

PRODUCT OVERVIEW

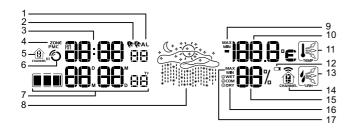
FRONT VIE



BACK VIEW



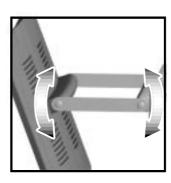
VFD DISPLAY



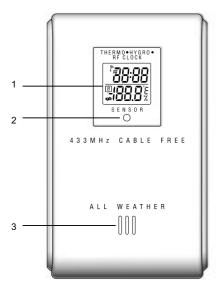
- 1. ALARM ON/OFF button activate / deactivate alarm
- Mirror display 2.
- 3. 4. VFD display (Vacuum Fluorescent Display)
- DOWN button decrease setting / deactivate radio-controlled clock
- UP button increase setting / activate radio-controlled clock 5
- CLOCK button changes settings and display 6.
- 7. LED light-bars turn on when the VFD display is ON 8.
- ACTIVE / SNOOZE touch panel snooze function / activate display 9. CHANNEL button - switch remote sensor display
- 10. MEMORY button view current, maximum and minimum temperature and
- humidity readings 11. ALARM button view alarm status; set alarm

- Stand 1.
- °C / °F button 2.
- 3. **RESET** button
- 4 AC adaptor hole
- VFD control switch (Display On/ Auto/ Off) 5.

You can adjust the angle of the weather station as shown below:

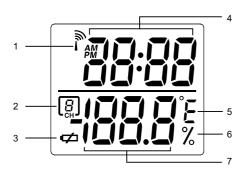


- 1. Alarm setting
- 2. Alarm is activated
- 3. Time
- 4. Offset time-zone
- 5. Channel number (1-5) / reception status
- 6. RF clock reception icon
- 7. Date / calendar / year
- 8. Weather display
- 9. MAX / MIN temperature
- 10. Temperature (°C / °F)
- 11. Temperature trend
- 12. Low battery icon for remote sensor
- 13. Humidity trend
- 14. Sensor channel number
- 15. Humidity
- 16. Comfort levels
- 17. MAX / MIN humidity

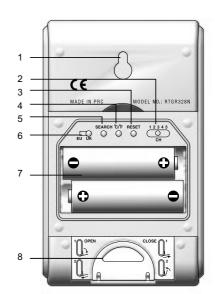


- 1. LCD display
- 2. LED status indicator
- 3. Ventilation duct

REMOTE SENSOR LCD DISPLAY



- 1. Signal reception
- 2. Channel number
- 3. Low battery icon
- 4. Time
- 5. Temperature (°C or °F)
- 6. Humidity %
- 7. Temperature / Humidity



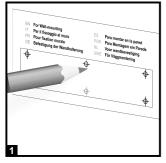
- 1. Wall mount
- 2. CHANNEL switch (1-5)
- 3. **RESET**
- 4. °C / °F switch
- 5. SEARCH
- 6. EU / UK radio signal format switch
- 7. Battery compartment
- 8. Fold-out stand

GETTING STARTED

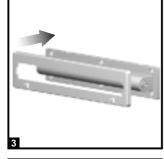
INSTALLING THE WALL-MOUNT HOLDER

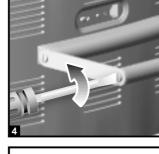
To install the wall-mount holder:

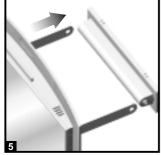
- 1. Use the diagram provided to mark where the 6 screws will be drilled.
- 2. Drill the screws into the wall to affix the wall-mount holder.
- 3. Put on the wall-mount cover.
- 4. Unscrew the bar that is in the Mirror Weather Station stand.
- 5. Attach the stand to the wall-mount holder and screw to affix firmly in place.
- 6. Adjust the angle of the mirror.







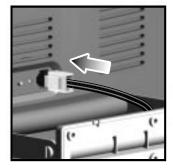






AC ADAPTOR (MAIN UNIT)

Please install the AC adaptor at the back of the unit as illustrated. (Hiding of the adaptor wire can only happen when the wall-mount holder is installed).





VFD DISPLAY

ACTIVATE / DEACTIVATE THE DISPLAY

Slide the VFD control switch at the back of the weather station to different display options:

- Display **ON** The VFD display and the LED light bars will always be on.
- Display OFF The VFD display and the LED light bars will always be off.
 Display AUTO The VFD display and the LED light bars will be on when any key is pressed or the front of the ACTIVE / SNOOZE touch panel is triggered. The display and the light bars will be turned off after 30 minutes if no other keys are pressed.

REMOTE SENSOR

This product is shipped with the RTGR328N Thermo / Hygro Sensor. The main unit can collect data from up to 5 sensors (5 Thermo / Hygro Sensors). The THGR328N and THGR228N sensors are also compatible with this weather station. (Additional sensors are sold separately. Contact your local stockist for more information).

The RTGR328N Sensor collects temperature and humidity readings, and signals from official time-keeping organizations for the radio-controlled clock.

SET UP THERMO / HYGRO SENSOR (RTGR328N)

1. Open the battery compartment with a small Phillips screwdriver.

OPTION

°C/°F

- 2. Insert batteries.
- Set the channel and radio signal format. The switches are located in the battery compartment.

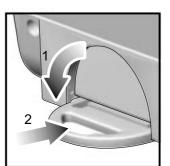
SWITCH	OPTION	
Channel	If you are using more than one sensor, select a different channel for each sensor.	
Radio Signal Format EU (DCF) / UK (MSF)		
4. Press RESET , then set the temperature unit.		

5.	Close the battery compartment.

To fold out the stand:

SWITCH

Temp



For best results:

- Insert the batteries and select the unit, channel, and radio signal format before you mount the sensor.
- · Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 30 metres (100 feet) from the main (indoor) unit.
- Position the sensor so that it faces the main (indoor) unit, minimizing obstructions such as doors, walls, and furniture.
- Place the sensor in a location with a clear view to the sky, away from metallic or electronic objects.
- Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.

NOTE The transmission range may vary and is subject to the receiving range of the main unit.

Data is sent from the sensor(s) every 60 seconds. The reception icon shown indicates the status.

ICON	DESCRIPTION
∄→⊕→∄	Main unit is searching for sensors.
৻ৣ৵৻ৣ৵৻ৣ	At least 1 channel has been found.
	Sensor 1 is sending data. (The number shows which sensor is selected).
	The selected sensor cannot be found. Search for the sensor or check batteries.

SEARCH FOR SENSOR

To search for the sensor, simultaneously press and hold **MEMORY** and **CHANNEL** for 2 seconds.

NOTE If the sensor is still not found, please check the batteries.

CLOCK AND CALENDAR

This product tracks the time and date based on radio-controlled signals from the RTGR328N remote sensor, or manual settings that you enter.

RADIO-CONTROLLED CLOCK

The time and date are automatically updated by radio-controlled clock signals from official time-keeping organizations in Frankfurt (Germany) and Rugby (England) unless you disable this feature.

Initial reception takes 2-10 minutes and is initiated when you first set up the unit or whenever you press **RESET**. Once complete, the reception icon will stop blinking.

How these signals work together:

ICON	MEANING
	The unit has contact with the sensor and has synchronized the time.
	The unit has contact with the sensor but the time has not been synchronized.
	The unit has lost contact with the remote sensor but the time is synchronized.
	The unit has lost contact with the remote sensor and the time is not synchronized.
	The unit cannot reach the remote sensor.

NOTE To force a manual search for RF clock reception, press and hold **SEARCH** on the sensor for 2 seconds.

TURN RADIO-CONTROLLED CLOCK ON / OFF

If you wish to manually set the clock, you must first disable the radio-controlled feature.

To disable the radio-controlled feature, press and hold **DOWN** on the main unit for 2 seconds.

To enable the radio-controlled feature, press and hold UP for 2 seconds.

NOTE When the feature is disabled, the house icon disappears in the upper lefthand corner of the VFD display.

SET CLOCK

You only need to do this if you have disabled the radio-controlled clock (or if you are too far from a RF signal).

- 1. Press and hold CLOCK for 2 seconds.
- Select the time zone offset hour (+ / -23 hours), 12 / 24-hour format, hour, minute, year, date / month format, month, day and display language.
- Press UP or DOWN to change the setting.
- 4. Press **CLOCK** to confirm.

NOTE The language options are (E) English, (F) French, (D) German, (I) Italian, and (S) Spanish. The language you select determines the weekday display.

SWITCH CLOCK DISPLAY

Press CLOCK to toggle between:

Clock with day

Clock with time-zone offset

ALARMS

This product has 2 alarms.

SET ALARM

- 1. Select Alarm#1 or Alarm#2 by pressing **ALARM** once or twice (once to view Alarm #1, twice to view Alarm#2). The alarm number will show just to the right of the displayed alarm time.
- 2. Press and hold **ALARM** for 2 seconds.
- 3. Select the hour and minute. Press UP or DOWN to change settings.
- 4. Press ALARM to confirm.
- The Daily Alarm icon **(**) will light up when the alarm is set.

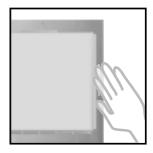
ACTIVATE/ DEACTIVATE ALARM

To activate / deactivate the alarm, press **ALARM ON / OFF**. The alarm icons will light up when the alarm is set. You can set Alarm#1, Alarm#2 or both alarms simultaneously.

NOTE When the alarm time is reached, the crescendo alarm will sound for 2 minutes. Press any key to silence the alarm. It will sound at the same time the next day.

SNOOZE

Tap on the area at front of the **ACTIVE / SNOOZE** panel to temporarily disable the alarm for 8 minutes.



NOTE The **ACTIVE** / **SNOOZE** touch panel is subject to varying degrees of sensitivity; you may need to tap against the area of the touch panel more than once and with varying degrees of pressure or force to trigger the function.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius. The forecast is based on barometric pressure trend readings.

The top area shows an animated icon indicating the forecasted weather.

WEATHER FORECAST ICONS

ICON	DESCRIPTION
	Clear
Day / Night	
	Partly cloudy
Day / Night	
	Cloudy
	Rainy
· . · . · ·	Snowy

NOTE The nighttime icon displays from 6 PM to 6 AM. When the Channel 1 sensor records a temperature of 2°C (35.6 °F) or lower, the Rainy icon becomes Snowy.

TEMPERATURE AND HUMIDITY

- The weather station can display the following information:
- Current, minimum and maximum temperatures and relative humidity percentages.
- Comfort level indicator and trend line (rising, falling, or steady).

NOTE Data is collected and displayed approximately every 60 seconds.

VIEW TEMPERATURE AND HUMIDITY AREA

Temperature data is given at the top; humidity is below.



SELECT MEASUREMENT UNIT

Press the °C / °F button to the desired setting.

NOTE The button is located at the back of the unit.

SELECT SENSOR CHANNEL

Press **CHANNEL** to switch between sensors 1-5. (The house icon shows the selected remote sensor).

To auto-scan between sensors, press and hold **CHANNEL** for 2 seconds. (Each sensor's data will be displayed for 3 seconds).

To end auto-scan, press CHANNEL or MEMORY.

NOTE If you select a sensor that collects only temperature data, the humidity will not be shown.

MINIMUM / MAXIMUM RECORDS

Press **MEMORY** repeatedly to view current, maximum and minimum records for the selected sensor.

To clear the records, press and hold **MEMORY** for 2 seconds. A beep will sound to confirm that the memory has been cleared.

TEMPERATURE AND HUMIDITY TREND LINES

The trend lines are shown next to the temperature and humidity readings.

TREND	RISING	STEADY	FALLING
TEMPERATURE			
HUMIDITY	NRH-		SRH-

COMFORT ZONE

The Comfort Zone indicates how comfortable the climate is, based on current temperature and humidity measurements.

ZONE	TEMPERATURE	HUMIDITY
WET 😀	Any	>70%
сом 😳	20-25°C (68-77°F)	40-70%
DRY 🙄	Any	<40%

NOTE This information is shown just beside the humidity reading.

RESET SYSTEM

The RESET button is located at the back of the unit.

Press **RESET** whenever performance is not behaving as expected, (for example, unable to establish radio frequency link with remote unit or radio-controlled clock).

NOTE When you press **RESET**, all settings will return to the default settings so you will lose all stored information.

SAFTY AND CARE

Clean the product with a slightly damp cloth and alcohol-free, mild detergent. Avoid dropping the product or placing it in a high-traffic location.

WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product.

Please observe the following guidelines:

- Never immerse the product in water. (This can cause electrical shock and damage the product).
- Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
- · Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the display

NOTE The technical specification of this product and contents of this user guide are subject to change without notice. Also images not drawn to scale.

TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Calendar	Strange date / month	Change language
Clock	Cannot adjust clock	Disable radio-controlled clock
Temp	Cannot auto-synch	1.Press RESET 2.Manually activate radio-controlled clock
	Shows "LLL" or "HHH"	Temperature is out-of-range
Remote sensor	Cannot locate remote sensor	Check batteries

SPECIFICATIONS	
MAIN UNIT DIMENSIONS	
LxWxH	330 x 42 x 207 mm (12.99 x 1.65 x 8.15 inches)
Weight	1002 grams (2.20 lbs)
REMOTE UNIT DIMENSIONS	
L×W×H	70 x 24.5 x 116 mm (2.76 x 0.96 x 4.57 inches)
Weight	108 grams (0.24 lbs) without battery
TEMPERATURE	
Unit	°C or °F
Indoor Range	-5 °C to 50 °C
Outdoor Range	-20 °C to 60 °C
Resolution	0.1 °C (0.2° F)
Comfort	20 °C to 25 °C
Display	Sunny (day / night), partly cloudy (day / night), cloudy, rainy, snowy
RELATIVE HUMIDITY	
Range	25% to 95%
Resolution	1%
REMOTE UNIT (RTGR328N)	
RF frequency	433 MHz
Range	Up to 30 metres (100 feet)
Transmission	Approx. every 1 minute
Channel No.	1, 2, 3, 4 or 5
Unit	°C or °F
RADIO-CONTROLLED CLOCK	
Synchronization	Auto or disabled
Clock display	HH:MM:SS
Hour format	12hr AM/PM (MSF format) 24hr (DCF format)
Calendar	DD/MM or MM/DD;
languages (E, G, F, I, S)	Day of the week in 1 of 5
Alarm	2-minute crescendo
MAIN UNIT	
Power adapter	AC adapter
THERMO / HYGRO REMOTE UN	
Batteries	2 x UM-3 (AA) 1.5V

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our customer care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on our website, however if you'd like to contact the Oregon Scientific Customer Care department directly, please visit: <u>www2.oregonscientific.com/service/support</u>

OR

Call 949-608-2848 in the US.

For international enquiries, please visit: http://www2.oregonscientific.com/about/international/default.asp

EC-DECLARATION OF CONFORMITY

Hereby, **Oregon Scientific**, declares that this Mirror Weather Station model MR238 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

COUNTRIES RTTE APPROVAL COMPLIED All EC countries, Switzerland CP and Norway N

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Mirror Weather Station Model: MR238

User Manual